



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09 964,059A  
Source: O1PE  
Date Processed by STIC: 10/08/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202



Does Not Comply  
Corrected Diskette Needed

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/964,059A

DATE: 10/08/2002  
TIME: 14:15:45

Input Set : N:\EBONY'S\EP.txt  
Output Set: N:\CRF4\10082002\I964059A.raw

1 <110> APPLICANT: Frudakis, Tony  
3 <120> TITLE OF INVENTION: Efficient Methods and Apparatus for High-Throughput  
Processing of Gene  
4 Sequence Data  
6 <130> FILE REFERENCE: 0201-0001  
8 <140> CURRENT APPLICATION NUMBER: US 09/964,059A  
10 <141> CURRENT FILING DATE: 2001-09-26  
12 <150> PRIOR APPLICATION NUMBER: US 60/274,686  
13 <151> PRIOR FILING DATE: 2000-03-08  
15 <160> NUMBER OF SEQ ID NOS: 239

## ERRORED SEQUENCES

180 <210> SEQ ID NO: 17  
181 <211> LENGTH: 3260  
182 <212> TYPE: DNA  
183 <213> ORGANISM: Homo Sapiens  
185 <400> SEQUENCE: 17  
186 agttaatgca cacagtttg ctatgtttgg cttcaaaatt aattaaaactg tatcaatgt 60  
187 ttttgaagtg ttaagtcatt tttatgtctt agcttcattt atagatgagg caaatataca 120  
188 aacagattaa actgactttt acagaataat tattttttt cttgtttac atggaaagga 180  
189 atccctccatt ttaggatgca cataaaaatgc cagcctatgt tgatgacatt gccttaacac 240  
190 ttttttttta agtaattttt cagggttagtt aacctgtaaa agaaaacagtg gataaaacttg 300  
191 aaaatgctaa tagcaaaaaa cacttcagcc atggcacata caaccagaag ccaatgat 360  
192 cttcaacta tagaaattag cgggttttc tgtttattcc tgaagcagga ttccatattc 420  
193 aagccagaaa ttgtcattca acagaaaaaa tcaggtcaaa acaatcaatc acataatgt 480  
194 gcaagacaaa agtatgtct tatgtgaaga aaaacaaaaa caacaatataa ccgaactttt 540  
195 attttcttga atataatatt gatggcaaga ttgctaagag gtcatccctg tatttagtt 600  
196 agataaaggc ttccagcata gaacactgtt aagaagtaac tgcaggagc tatgcagaag 660  
197 tgcgtggagg caaataatatt aaaaactaga aaagcagggtt ttaattttct atagacttt 720  
198 ttacacatta ttatgttacg agacaaatgc agataattct taatttatca aatttgtgag 780  
199 ctttaatttaac aaaaatattt gaccctcacc agaaaaacag ataactctaa atctactctg 840  
200 aaaaatctaat caattgcgaa gtattaccta tttggagact atgtattata tcaaagataa 900  
201 agtactatt ctcacagaac atatggggtc attggcagcc aaccaataat gaagtaata 960  
202 ttctaatatt tggaaaaata ctgagaaaac taataatttgc tcctggatatt tattttct 1020  
203 tgcctttaca aaagacttac acatccaaat gagattagtt tagaatagag gtttttagtt 1080  
204 cagaaaaatgt tcaaagtcca atacagtcat ggctaattcag agactagaga acctttataa 1140  
205 aggttaagtag gcttggaaac ctttggaaac tgagcagtct tattttgaac tagcatgttt 1200  
206 taatcaaagg tatggattta atcaaataatc aattaagaat tactggaatg cacactcatg 1260  
207 ccaaataatgca actaacatgt tatttcctac tatgtatgact ctttgattt gtcagatgg 1320  
208 cataaaaaaaa tattgtctac tatacaataatc tattttactct tctgtttctg ctctctaaag 1380  
209 aaaaatctta ttttttcaca taagaagctc atggaatcga atgttaattt aagaaaaagat 1440  
210 aqggttaagta caactgggggaaagacagta cctctaattt catagggaaat ccatgaaaga 1500

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211 attaatcatc ataagagaag aatcatttt ccagtagccc cactaccatg aatgatattt 1560  
 212 tcatgaccc cgccaccc ttccaatgga tattgagaac ctatcacagg tttcaaccag 1620  
 213 ccaatttcca ttccagctt aagggctgt gcatattgt gaaattcctc ctaagaaaag 1680  
 214 gaaaaacaaa tttctttt tagtgaaccg tatgatttaa tttcagaag cataaaaac 1740  
 E--> 215 acttcagaat ctaagtgtta taccatgaag agtctttac aaatgtgtga cttttgtcaa 1700 - 1800  
 E--> 216 cttgtccaga actatagaaa aagtagttat ctacaggta accataaattc ccacatgcct 1760 - 1860, and so on  
 E--> 217 gagacagtgt tagtgtacaa aatacctgtt gtcctgaaat tattactgt atcacatttc 1820  
 E--> 218 tatctcaaaa ggtatgttta cctggatata aattatactg tcaccctagt tgtccttctg 1880  
 E--> 219 gtgactaattc cttaccaact cccactagtc atataactaa gtttaacatc tattcaaact 1940  
 E--> 220 ttcagcttgc ctgagtaggc aaactgtacc aatgtttaag ttaccaaaat cagaagtact 2000  
 E--> 221 tctttccta cttgttga gaaaaagaga gtaactccaa ttatactcga ctcccttgcc 2060  
 E--> 222 atgggttctc gtgggttat tcaatagta cctctgtgc caacaaccta acatgaaaaa 2120  
 E--> 223 cagcaattct acagttaaag attactgtaa aatagtgtt aattgtggtt aaacattaaa 2180  
 E--> 224 gtggtaaaaaa aaaaaaaaaaag aaaaggaaata cttactatca ctgccttcc atgtgacaga 2240  
 E--> 225 agactcaagt ctttactaag atttacatta gtaacattt caataattat atcaattcct 2300  
 E--> 226 ttctcaccaa catacttcta tataataaaa gagaaatgtt gatgtgaaa gcaagtgaaa 2360  
 E--> 227 aactgtaaaa tagctactat ctgtacaaga tattatagaa atatgttca aatgatatat 2420  
 E--> 228 aatgttaca tctttagac taataatgca aaattttaa taatctaatt atataatcac 2480  
 E--> 229 gatgttaattc caaggtacca gccagaacat ctaaactgtt aaaaatttggt actaaataca 2540  
 E--> 230 ttgctgttagt gaaataaaatg ttgtctggaa ttttcagggtg ctgactcaa cttgagtata 2600  
 E--> 231 aaataacttag ctgaaaattt tctatctgtt aaataaactt tcataaagaa acaataaattc 2660  
 E--> 232 aaaagccccca aaccccccagg gggctcccat tttttaat aaacaaaaag caaaagaaga 2720  
 E--> 233 tatttcatttc tggtcggtt tgcattgtt ttgttgggtt agtgcattt gttttgttct 2780  
 E--> 234 aaatggttt tcatctgtt gatgcactaa ctctttggg ctcttggatg ttggacgctg 2840  
 E--> 235 gctttacaa aaagctacac acatctacat tatattcatt ttattttaaac acacacacac 2900  
 E--> 236 aaatgaatcc ctgtccccgg gattgcacta ggtaccagga atacaatatac aaacataggg 2960  
 E--> 237 agctcaaaac aaaacttagt agaaaagatgg gaaataactac agtcatagct ataaagtaat 3020  
 E--> 238 gggctaaatgta acacatttagc agaaataaaat catagaatac agagaaaaaa ggttaagggtt 3080  
 E--> 239 tgattgcctg ccatggtcag ataaagtcc acagagacga tgaactggc cctcaggat 3140  
 E--> 240 gaataggagt ttcccaagcc aaaagaaaagg aaaatgatgtt aggggaagct agacactgagg 3200  
 E--> 241 ctgagtcagt ctggacccaa gaaacagaaaa agcaaagatg gaggggactg agaacacaag 3260  
 340 <210> SEQ ID NO: 20  
 341 <211> LENGTH: 384  
 342 <212> TYPE: DNA  
 343 <213> ORGANISM: Homo Sapiens  
 345 <400> SEQUENCE: 20  
 346 acagacagag atagacagag gcagagtcag ggagaggcag agaaagaaa agaacaagaa 60  
 347 agcttaaaga tagtccaaac gcaagctgt cttaaaaaaa tgcatactct attactggca 120  
 348 acaaagttt ataatttata cattttatg accactaattc ctttattt tcaagatcac 180  
 349 aacaggggac tcatattata gatcaagta aatattcatta ccaacattt atttaacagt 240  
 350 ttgtccctt taattacatg gagaatgata tagtactcc ttcatgcctt ttttctcct 300  
 351 taacaagcca tatgcaggaa agttccatg ctgccaaac ataaaagaaa gttatatttc 360  
 E--> 352 attcctaana gaaaactgaa aagc 384  
 815 <210> SEQ ID NO: 63  
 816 <211> LENGTH: 1300  
 817 <212> TYPE: DNA  
 818 <213> ORGANISM: Homo Sapiens  
 820 <400> SEQUENCE: 63  
 E--> 821 nnatttcagt accaaatttta ctgtggaaac agccagtaga gaatacaaga aatgttcaa 60  

*Ys in sequence  
see P. 6 for exp location*

*The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.*

*- Some end*



RAW SEQUENCE LISTING  
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Input Set : N:\EBONY'S\EP.txt  
Output Set: N:\CRF4\10082002\I964059A.raw

1616 <400> SEQUENCE: 150  
**E--> 1617** aggggtanga tttaaaaat acatgttaat gttatTTact n 41  
 1619 <210> SEQ ID NO: 151  
 1620 <211> LENGTH: 41  
 1621 <212> TYPE: DNA  
 1622 <213> ORGANISM: Homo Sapiens  
 1624 <400> SEQUENCE: 151  
**E--> 1625** aggggtaaaga tttaaaaat acatgttaat gttatTTact n 41  
 1627 <210> SEQ ID NO: 152  
 1628 <211> LENGTH: 41  
 1629 <212> TYPE: DNA  
 1630 <213> ORGANISM: Homo Sapiens  
 1632 <400> SEQUENCE: 152  
**E--> 1633** aggggtaaaga tttaaaaat acatgttaat gttatTTact n 41  
 1687 <210> SEQ ID NO: 158  
 1688 <211> LENGTH: 11  
 1689 <212> TYPE: DNA  
 1690 <213> ORGANISM: Homo Sapiens  
 1692 <400> SEQUENCE: 158  
**E--> 1693** cttctgagtt a 11  
 1695 <210> SEQ ID NO: 159  
 1696 <211> LENGTH: 11  
 1697 <212> TYPE: DNA  
 1698 <213> ORGANISM: Homo Sapiens  
 1700 <400> SEQUENCE: 159  
**E--> 1701** cttctgagtt a 11  
 1703 <210> SEQ ID NO: 160  
 1704 <211> LENGTH: 11  
 1705 <212> TYPE: DNA  
 1706 <213> ORGANISM: Homo Sapiens  
 1708 <400> SEQUENCE: 160  
**E--> 1709** cttttgagtt a 11  
 1711 <210> SEQ ID NO: 161  
 1712 <211> LENGTH: 11  
 1713 <212> TYPE: DNA  
 1714 <213> ORGANISM: Homo Sapiens  
 1716 <400> SEQUENCE: 161  
**E--> 1717** cttctgagtt a 11  
 1719 <210> SEQ ID NO: 162  
 1720 <211> LENGTH: 11  
 1721 <212> TYPE: DNA  
 1722 <213> ORGANISM: Homo Sapiens  
 1724 <400> SEQUENCE: 162  
**E--> 1725** cttttgagtt a 11  
 1727 <210> SEQ ID NO: 163  
 1728 <211> LENGTH: 11  
 1729 <212> TYPE: DNA  
 1730 <213> ORGANISM: Homo Sapiens  
 1732 <400> SEQUENCE: 163

some errors as in seq. 20

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/964,059A

DATE: 10/08/2002  
TIME: 14:15:45

Input Set : N:\EBONY'S\EP.txt  
Output Set: N:\CRF4\10082002\I964059A.raw

E--> 1733 cntctgagtt a 11 } Some errors in Seq. 20  
1735 <210> SEQ ID NO: 164  
1736 <211> LENGTH: 11  
1737 <212> TYPE: DNA  
1738 <213> ORGANISM: Homo Sapiens  
1740 <400> SEQUENCE: 164

E--> 1741 cntctgagtt a 11  
1743 <210> SEQ ID NO: 165  
1744 <211> LENGTH: 11  
1745 <212> TYPE: DNA  
1746 <213> ORGANISM: Homo Sapiens  
1748 <400> SEQUENCE: 165

E--> 1749 cntctgagtt a 11  
1751 <210> SEQ ID NO: 166  
1752 <211> LENGTH: 11  
1753 <212> TYPE: DNA  
1754 <213> ORGANISM: Homo Sapiens  
1756 <400> SEQUENCE: 166

E--> 1757 cntctgagtt a 11  
1759 <210> SEQ ID NO: 167  
1760 <211> LENGTH: 11  
1761 <212> TYPE: DNA  
1762 <213> ORGANISM: Homo Sapiens  
1764 <400> SEQUENCE: 167

E--> 1765 cntctgagtt a 11  
1767 <210> SEQ ID NO: 168  
1768 <211> LENGTH: 11  
1769 <212> TYPE: DNA  
1770 <213> ORGANISM: Homo Sapiens  
1772 <400> SEQUENCE: 168

E--> 1773 cntttgagtt a 11  
2330 <210> SEQ ID NO: 238  
2331 <211> LENGTH: 260 - Found 200  
2332 <212> TYPE: DNA  
2333 <213> ORGANISM: Homo Sapiens  
2335 <400> SEQUENCE: 238  
2336 ctcaggtccc acagcaacaa tatcattcaa actgcaatta aaacatacac acataatata 60  
E--> 2337 taaggtgaag gtattgaaca ttacaggatt attaactggc attcctcact gtcttattcct 180 → 120  
E--> 2338 aaaatcaaga tgtggatgg agccttcgtg ctagctataa tggAACACAA ttaatatgaa 240 → 180  
E--> 2339 attagtcctg ccgataacaat 260 → 200

VARIABLE LOCATION SUMMARY  
PATENT APPLICATION: US/09/964,059A

DATE: 10/08/2002  
TIME: 14:15:46

Input Set : N:\EBONY'S\EP.txt  
Output Set: N:\CRF4\10082002\I964059A.raw

Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:20; N Pos. 369  
Seq#:63; N Pos. 1,2,3  
Seq#:146; N Pos. 21,41  
Seq#:147; N Pos. 21,41  
Seq#:148; N Pos. 41  
Seq#:149; N Pos. 8,41  
Seq#:150; N Pos. 8,41  
Seq#:151; N Pos. 41  
Seq#:152; N Pos. 41  
Seq#:158; N Pos. 2  
Seq#:159; N Pos. 2  
Seq#:160; N Pos. 2  
Seq#:161; N Pos. 2  
Seq#:162; N Pos. 2  
Seq#:163; N Pos. 2  
Seq#:164; N Pos. 2  
Seq#:165; N Pos. 2  
Seq#:166; N Pos. 2  
Seq#:167; N Pos. 2  
Seq#:168; N Pos. 2  
Seq#:169; N Pos. 2  
Seq#:170; N Pos. 2  
Seq#:171; N Pos. 2  
Seq#:172; N Pos. 2  
Seq#:173; N Pos. 2  
Seq#:174; N Pos. 2  
Seq#:175; N Pos. 2  
Seq#:177; N Pos. 4  
Seq#:178; N Pos. 4  
Seq#:179; N Pos. 4  
Seq#:180; N Pos. 4  
Seq#:181; N Pos. 4  
Seq#:182; N Pos. 1,2  
Seq#:183; N Pos. 1,2,3,4,5,6  
Seq#:184; N Pos. 2  
Seq#:185; N Pos. 2  
Seq#:186; N Pos. 2  
Seq#:187; N Pos. 2  
Seq#:188; N Pos. 2  
Seq#:189; N Pos. 4  
Seq#:190; N Pos. 2  
Seq#:191; N Pos. 2  
Seq#:192; N Pos. 2

VARIABLE LOCATION SUMMARY  
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DATE: 10/08/2002  
TIME: 14:15:46

Input Set : N:\EBONY'S\EP.txt  
Output Set: N:\CRF4\10082002\I964059A.raw

Seq#:193; N Pos. 2  
Seq#:194; N Pos. 4  
Seq#:195; N Pos. 4  
Seq#:199; N Pos. 2  
Seq#:200; N Pos. 4  
Seq#:204; N Pos. 4  
Seq#:206; N Pos. 5  
Seq#:208; N Pos. 4  
Seq#:209; N Pos. 2  
Seq#:210; N Pos. 2  
Seq#:212; N Pos. 2  
Seq#:213; N Pos. 2  
Seq#:214; N Pos. 1,2,10  
Seq#:218; N Pos. 2  
Seq#:219; N Pos. 2  
Seq#:220; N Pos. 96,120,148,149,150,175  
Seq#:235; N Pos. 9,10,12  
Seq#:236; N Pos. 9,10,11,12,13

VERIFICATION SUMMARY  
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Input Set : N:\EBONY'S\EP.txt  
Output Set: N:\CRF4\10082002\I964059A.raw

L:215 M:254 E: No. of Bases conflict, LENGTH:Input:1700 Counted:1800 SEQ:17  
M:254 Repeated in SeqNo=17  
L:241 M:252 E: No. of Seq. differs, <211> LENGTH:Input:3260 Found:3360 SEQ:17  
L:352 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:20  
L:821 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:63  
L:1585 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:146  
L:1593 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:147  
L:1601 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:148  
L:1609 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:149  
L:1617 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:150  
L:1625 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:151  
L:1633 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:152  
L:1693 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:158  
L:1701 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:159  
L:1709 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:160  
L:1717 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:161  
L:1725 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:162  
L:1733 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:163  
L:1741 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:164  
L:1749 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:165  
L:1757 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:166  
L:1765 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:167  
L:1773 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:168  
L:1781 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:169  
L:1789 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:170  
L:1797 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:171  
L:1805 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:172  
L:1813 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:173  
L:1821 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:174  
L:1829 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:175  
L:1845 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:177  
L:1853 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:178  
L:1861 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:179  
L:1869 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:180  
L:1877 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:181  
L:1885 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:182  
L:1893 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:183  
L:1901 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:184  
L:1909 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:185  
L:1917 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:186  
L:1925 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:187  
L:1933 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:188  
L:1941 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:189  
L:1949 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:190  
L:1957 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:191  
L:1965 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:192  
L:1973 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:193  
L:1981 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:194

## VERIFICATION SUMMARY

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DATE: 10/08/2002

TIME: 14:15:46

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\10082002\I964059A.raw

L:1989 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:195  
L:2021 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:199  
L:2029 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:200  
L:2061 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:204  
L:2077 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:206  
L:2337 M:254 E: No. of Bases conflict, LENGTH:Input:180 Counted:120 SEQ:238  
M:254 Repeated in SeqNo=238  
L:2339 M:252 E: No. of Seq. differs, <211> LENGTH:Input:260 Found:200 SEQ:238